THE

# ART and MYSTERY

OF

# VINTNERS

AND

# Wine-Coopers:

Or, a Brief

## DISCOURSE

Concerning the various Sicknesses and Corruptions of

# WINES,

And their respective Remedies; also approved Directions for the Conserving and Curing all Sorts of Wines; whether Spanish, Greek, Italian, Portugal or French, very necessary for all People. Delivered to the Royal Society, by one that served two Apprenticeships to a Vintner, in the City of London.

#### LONDON:

Sold by J. CLARKE, at the Golden Ball in Duck Lane, near Little Britain, 1735. Price 6d. Stitch'd

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## The Mystery of VINTNERS.

Vidence (you all know) is the life of Truth, and Method the life of Discourse; the former being requisite to convince the understanding, the latter, to facilitate the searches of it. In this short accompt, therefore, of my Collections and Observations concerning Alterations of Wines, both Natural and Artificial, which according to your command I now bring to you, I am obliged to use plainness and order: this to avoid consuson, that, lest I increase the obscurity of my Subject.

My Argument then, I divide into four Parts, to which as to Generals or Heads, all confiderables thereunto belonging feem naturally to refer them-

felves. Of thefe

The First is, the Natural Purification or Clarification of Wines, whereby of themselves they pass from the state of Crudity and Turbulency, to that of Maturity; by degrees growing clear, fine and potable.

The Second, the unfeatonable Workings, Frettings and other Sicknesses, to which, from either internal or external Accidents, they are afterward subject.

The Third, their state of Declination or Decay, wherein they degenerate from their Goodness and Pleasantness, becoming Pall'd, or turning into Vinegar.

The Last, the several Artifices used to them, in

each of these States or Conditions.

In the first of these Heads, viz. The Natural Clarification of new Wines, two things occur, not un-

worthy confideration; the manner how, and the

cause by which the same is effected.

As for the Manner, give me leave to observe, that Wine, while yet in the Must, is usually put into open Vessels; the abundance and force of the Spirits, i. e. the more fubtle and active parts therein contained, being then fo great, as not to endure imprifonment in close ones, at which time it appears troubled, thick and feculent: All parts or elements of it being violently commoved and agitated, fo that the whole mass of Liquor seems to boyl, like Water in a Cauldron over the Fire. This tumult being in fome degree composed, and the Gas Sylvefire (as Helment barbarously calls it) or wilder Spirit sufficiently evaporated; they then pour the Must into close Vessels, there to be farther defecated, by continuance of the same motion of Fermentation; referving the Froth or Flower of it, and putting the same into imall Casks, hooped with Iron, lest otherwise the force of it might break them. This Flower thus feparated, is what they name Stum, either by transpofition of the letters in the word Must, or from the word Dtum, which in High Dutch fignifies Mute; because this Liquor (forfooth) is hindred from that Maturity, by which it should speak its goodness and wholesomeness. Quasi dicas, Vinum mutum, qui a nunquam efferbuit, vel peties à Belg. Stomp. Teutonice Drompf. hebes, obtusum ; quia scilices, ob defectum ferment ationis, Spiritm, non ut vina atate defacata, puros, vividos O' expeditos, Sed hebetes & languidos habet. This done, frey leave the rest of the Wine to finish its Fermenention; during which it is probable, that the spiritual parts impell and diffule the groffer and feculent up and down, in a confused and tumultuous manner, until all being disposed into their proper Regions, the Liquor becomes more pure in Substance, muse transparent to the Eye, more piquant and guft-

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The impurities thus separated from the Liquor, are, upon Chymical Examinations, sound to consist of Sait, Sulphur (each of which is impregnate with some Spirits) and much Earth. Which being now dissociated from the purer Spirits, either mutually cohere, co-agulate and affix themselves to the sides of the Vessel, in form of a stony Crust, which is called Tartar and Argol; or sink to the bottom in a muddy Substance, like the Grounds of Ale or Beer, which is called the Lees of Wine. And this in short I conceive to be the process of Nature in the Clarification of all Wines, by an orderly Fermentation.

As for the principal Agent, or efficient Cause of this operation, I perswade my felf, you will easily admit it to be no other but the Spirit of the Wine it Which, according to the Mobility of its nature, feeking after liberty, restlesly moving every way in the Mass of Liquor, thereby dissolves that common tye of Mixture, whereby all the Heterogeneous parts thereof were combined and blended trgether; and having gotren it felf free, at length abandons them to the tendency of their gravity and other Proprieties. Which they foon obeying, each kind conforts with their like, and betaking themselves to their several Places or Regions, leave the Liquor to the post fron and government of its noblest Principle, the Spirit. For, this Spirit as it is the life of the Wine, to doubtless it is also the cause of its Purity and Vigor, in which the perfection of that life feems to confist. I.

From the natural Fermentation of Wines we pais to the Accidental, from their flate of Soundness, to that of their Sickness; which is our second General Head. We have the Testimony of daily Experience, that many times even good and generous Wines are invaded by unnatural and sickly commotions, or (10)

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fpeak in the dialect of Wine Coopers) Workings; during which they are turbulent in Motion, thick of Confistence, unsavory in Taste, unwholsome in Use, and after which they undergo fundry Alterations to the worse.

The Causes hereof may be either Internal or Ex-

ternal.

Among the Internal, I should affign the chief place to the excellive quantity of Tartar, or of Lees; which containeth much of Salt and Sulphur (as hath already been hinted) continually fend forth into the Liquor abundance of quick and active particles, that like Stum or other adventitious Ferment, put it into a fresh Tumult or Confusion. Which if not in time allayed, the Wine either grows Rank or Pricking, or elfe turns Sour; by reason that the Sulphur, being overmuch exalted over the fest of the Elements or Ingredients, predominates over the pure Spirits, and infects the whole Mass of Liquor with sharpness or acidity; or else it comes to pass, that the Spirits being frent and flown away, in the commotion, and the Salt diffolv'd and fet affoat, obtains the maftery over the other similar parts, and introduceth Rankne's or Ropiness. Yea, tho' these Commotions chance to be suppressed before the Wine is thereby much depraved; yet do they always leave fuch evil impressions, as more or less alienate the Wine from the goodness of its former state, in Colour, Consistence and Taste. For hereby all Wines acquire a deeper Tincture, i.e. a thicker body or confisence; Sacks and White Whines changing from a clear White to a cloudy Yellow, and Claret lofing its bright Red for a duskish Orange Colour, and sometimes for a Tawny. In like manner they degenerate also in Tafte, and affect the palate with foulness, roughness, and raucidity very unpleafant.

Among the External, are commonly reckoned the too frequent, or violent motion of Wines, after their

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fettlement in their Vessels; immoderate Heat, Thunder or the report of Cannons, and the admixture of any exotick body, which will not fymbolize or agree, and incorporate with them, especially the flesh of Vipers, which I have frequently observed to induce a very great Acidity upon, even the fweetest and fullest bodied Malago and Canary Wines. Yet, under favour, I should think all these foreign Accidents to be rather Occasions than Causes of the evil Events that follow upon them; because these Events feem to arise immediatly and principally from the commotion and diffusion of the Sulphureous, or Saline impurities formerly separated from the Liquor, and kept in due subjection by the genuine and benign Spirits. But this is no place, nor is it my inclination, to infift upon nicety of Terms. which might indeed flart matter of subtle speculations, but can afford little or nothing of profit to our present Enquiry. Which brings us in the next place to our

Third, previous confiderable, viz. the Palling or Flatting of Wines, and their declination toward Vinegar, before they have attained to the State of Maturity and Perfection. Of this the grand and proxim Cause seems to be their Jejunenel's and poverty of Spirits, either Native, or Adventitious.

Native, when the Grapes themselves are of a poor and hungry kind, or gathered untipe, or nipt by early Fross, or half starved in their growth, by a

dry and unkindly feafon, O'e.

Adventitious, when the Liquor, rich perhaps and generous enough at first, comes afterward to be impoverished by loss of Spirits, either by Oppression,

or by Exhaustion

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The Spirits of Wine may be oppressed, when the quantity of impurities, or dregs with which they are combined, is so great, and their Crudity, Viscosity and Tenacity so Contumacious, that they can

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neither overcome them, nor deliver themselves from their Adhæsion; but are forced to yield to the obstinacy of the matter on which they should operate, and so to remain unactive and clogg'd. As may be exemplified in the course Wines of Moravia; which by reason of their great Austerity and Roughness, seldom attain to a due exaltation of their Spirits, but still remain Turbulent, Thick, and in the State of Crudity; and therefore easily Pall, in which respect they are condemned by some German Physicians, and more expressly by Scanertus (lib. de Scorbut. cap. 2.) as infamous for generating the Scorbute, and administring matter for the Stone and Gout, they yielding more of Tartar than any other Wines.

Crato (confil. 10.) tot in Moravia Colicos & Paralyticos fieri non a'iam ob rationem existimat, quam quod
vina Moravica nexia sunt: & Cardanus (consilio pro
dolore vago) cujusam Colici doloru quadriennis meminit,
non ventrem solum & pessinem, sed etiam pessus, dorsum
& cervicem cum palpitatione ingenti, torquentis cujus originem petit à vini azerbi & austeri potu. Vide etiam
Levin. Lemn de occule. natur. miraculis, Lib.1. cap.15.

& Citefium de Colico dolore Pictonico, cap 4.

The Spirits of Wine may be exhausted or confumed either suddenly, or by degrees. Suddenly, by Lightning; which doth spoil Wine (as I conceive, at leaft) not by Congelation or Fixation of its Spirits; for, then such Wines might be capable of Restoration, by fuch means as are apt to reinforce and volatilize the Spirits again, contrary to what hath been found by Experience; but perhaps by Difgregation and putting them to flight, fo as to leave the Liquor Dead, Pall'd, and never to be revived by any new By Degrees, two ways, viz. by unnatural Fermentation, of whose evil effects something hath already been said, or by Heat from without; of which we have an instance in the making of Vinegar. Which commonly is done by fetting the Veffels of Wine Wine aminft the hot Sun ; which beating upon the Mass of Liquor, and rarefying the finer parts there? of, gives wings to the fugitive Spirits to fly away? together with the purer and more volatil Sulphur : leaving the remainder to the dominion of the Salt, which foon debaseth and infecteth it with Sourness. This being the common manner of turning Wine into Vinegar, and practifed (for ought I could ever Jearn to the contrary) in all Ages, and all Countries ; I make a doubt, whether Spirit of Wine may be drawn out of Vinegar, notwithstanding it hath been delivered as practicable, even by the grave and learned Sennertus himself, in lib. de consens. Chymicor. cum Galen. and heartily wish you would be pleased to resolve that my doubt, by some Experiment of your OWO

The times of the Year when Wines are observed to be most prone to Ferment and Fret, and then to grow Qually (as they call it) that is turbulent and foul, are Midsummer and Alballontide: when our Vintners use to rack them from their gross Lees, especially Renish, which commonly grows sick in June, if not rack'd; and they chuse to do it in the wane of the Moon, and fair Weather, the Wind being Nor-

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ls of Vine Having thus succinctly recounted the most remarkable Distempers of Wines, guessed at their respective Causes, and touched upon the times; it is seasonable for me to proceed to their usual Remedies, such at least as I have been able to collect from Wine-coopers and Vintners; which is the fourth

and last part of my Argument.

To begin therefore with some of the Artifices used to Wines when yet in Must; it is observable, that altho' to the raising a Fermentation in them, at that time, there be not so much need of any additional Ferment, as there is in the wort of Ale, Beer, Hydromel, Metheglin, and other forts of drinks familiar

miliar to us in England; because the Juice of the Grape is replenished with generous Spirits sufficient of themselves to begin that work ; yet it is usual in fome Countries to put quick Lime either upon the Grapes when they are Pressing, or into the Must, to the end that by the force and quickness of its Saline and fiery Particles, the Liquor may be both accelerated and affifted in working. For the fame reason perhaps it is, that the Spaniards mix with their Wines, while they are yet flowing from the Press, a certain thing they call Gieffo, which I guess to be a kind of Gyplum or Plaister & whereby the Wines are made more durable, of a paler Colour and more pleafant Taste: Others put into the Cask shavings of Firr, Oak or Beech, for the same purpose, and others Vinegar.

Again, tho' the first Fermentation succeeds generally well, fo that the whole Mass of Liquor is thereby delivered from the gross Lee; yet sometimes it happens, either through scarcity of Spirits at first, or through immoderate cold, that some part of those impurities remain confused and floating therein. Now in this Case, Wine-Coopers put into the Wine certain things to hasten and help its Clarification; fuch as being of gross and viscous parts, may adhere to the floating Lee, and finking carry it with them to the bottom; of which fort are Ifinglass and the whites of Eggs, or such as meeting with the groffer and earthly particles of the Lee, both dissociate, and fink them by their gravity; of which kind are the Powders of Alabaster, calcin'd Flints, white Marble, Roch Alum, &c.

The Clarification of Hippocras is usually expedited by putting into it new Milk, which after a short space of time separates and sinks of it self, carrying with it the Powders of the Spices and grosser parts of the Wine; after the manner of things that clari-

fie Liquors by way of Adhesion.

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The Grecians at this day have a peculiar way of fpurring Nature, and caufing her to mend her pace, in fining and ripening their ftrongest and most generous Wines; and it is by adding to them, when they begin to work, a proportionate quantity of Sulphur and Alum; not (as. I think) to prevent their fuming up to the head and inebriating, according to the conjecture of that great Man, the Lord St. Albans, in his Nat. Hift. For, notwithstanding this mixture, they cause Drunkenness as soon, if not sooner than other Wines; nor are Men intoxicated by the vapors of Wine flying up immediatly from the stomach into the Brain; but only to excite and promote their Fermentation, and hasten their Clarification ensuing thereupon; the Sulphur perhaps helping to attenuate and divide those gross and viscid parts, wherewith Greek Wines abound; and the Alum conducing to the speedier precipitation of them afterward. And it is reported by a learned Traveller (Zimar. in Antr. Magic. Medic. T. r. Lib.7.p. 510.) that some Merchants put into every Pipe of their Greek Wine, a Gill or thereabouts of the Chymical Oyl of Sulphur, in order to the longer prefervation of it clear and found. Which tho' I easily believe, because the Acid Spirit of Sulphur is known to resist Putrefaction in Liquors; yet I should decline the use of Wines so preserved, unless in time of Pestilential infection; remembring that old distich.

Qui bibit ingrato fædatum Sulphure Bacchum, Præparet ad diri se Phlegetontis aquam.

Of always of hastening the Clarification and Ripening of new Wine, none seems to me to be either more easie, or more innoxious than that borrowed from one of the Ancients by the Lord Chancellor Bacon, and mentioned in his Sylva Sylvarum. Centur. 7. Experim. 679. Which is by putting the Wine into Vessels well stopped, and letting it down into the Sea. Hence I am apt to derive the use of that An-

tique

tique Epithet given to Wine thus ripened, Vinum

Thalaffites ....

But how shall we reconcile this Experiment to that common practice of both the Ancients and Moderns of keeping Wine in the Must a whole Year about, only by finking the Cask for 30 or 40 days in a Well or deep River? That the use hereof is very Ancient, is manifest from that discourse of Plutarch's (Quaftion. Natur. 27.) about the efficacy of Cold upon Must, whereof he gives this Reason: That Cold not fuffering the Must to Ferment, by Suppressing the activity of the Spirits therein contain'd, conferveth the sweetness thereof a long time. Which is not improbable, because experience teacheth, That fuch who make their Vintage in a rainy Seafon, cannot get their Must to Ferment well in a Vauit, unless they cause great Fires to be made near the Casks: he rain mixed with the Must, together with the ambient Cold, impeding the motion of Fermentation, which ariseth chiefly from Heat.

That the same is frequent at this day also, may be collected from what Noble Mr. Boyle hath been pleafed to observe in his incomparable History of Cold, on the relation of a Frenchman, viz. That the way to keep Wine long in the Must (in which state the sweetness makes many to desire it) is to tun it up immediatly from the Press, and before it begins to work, to let down the Vessels, closely and firmly stopped, into a Well or deep River, there to remain for 6 or 8 Weeks. During which time, the Liquor will be so confirmed in its state of Crudity, as to retain the same, together with its sweetness, for many Months after, without any sensible Fermentation.

But (as I said) how can these two so different Effects, the Clarification of new Wine, and the Conservation of Wine in the Must, be derived from one and the same Cause, the Cold of the Water? without much difficulty, as I conjecture. For, it seems not

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unreasonable, that the same Cold, which hinders Must from Fermenting, should yet accelerate and promote the Clarification of Wine after Fermentation; in the first, by giving check to the Spirit before it begins to move and act upon the crude Mass of Liquor, so that it cannot in a long time after recover strength enough to work; in the latter, by keeping in the pure and genuine Spirit, otherwise apt to exhale, and rendring the slying Lee more prone to subside, and so making the Wine much sooner clear, sine and potable. And thus much

concerning the helps of New Wine. ¶.

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For the Preternatural, or fickly commotions incident to Wines after their first Clarification, and tending to their impoverishment or decay; the general and principal Remedy is Racking, i. e. drawing them from their Lees into fresh Vessels. Which yet being sometimes insufficient to preserve them, Vintuers find it necessary to pour into them a large quantity of new Milk, as well to blunt the sharpness of the Sulphureous parts now set affoat and exalted, as to precipitate them and other impurities to the bottom, by adhesion: But taught by experience, that by this means the Genuine Spirits of the Wine also are much flatted and impaired; (for, the Lee, tho' it makes the Liquor turbid, doth yet keep the Wine in heart, and conduce to its duration) therefore, lest such Wines should Pall and die upon their hands, as of necessity they must, they draw them forth for fale as fast as they can vent them.

For the same Disease they have divers other Remedies, particularly accommodated to the nature of the Wine that needs them. To instance in a few.

For Spanish Wines disturbed by a Flying-Lee, they have this receipt. Make a Parell (give me leave to use their Phrase) of the Whites of Eggs, Bay Salt, Milk and Conduit Water, beat them well together in a convenient Vessel, then pour them into the Pipe of

Wine (having first drawn out a gallon or two, to make room) and blow off the froth very clean. Hereby the tumult will in 2 or 3 days be Recomposed, the Liquor Refined, and the Wine drink Pleasantly, but will not continue to do so long; and therefore they counsel to rack it from the Milky bottom, after a weeks settlement, lest otherwise it should drink

foul, and change colour. And this,

If your Sacks or Canary Wines chance to boyl over, draw off 4 or 5 Gallons; then putting into the Wine 2 Gallons of Milk from which the Cream hath been skimm'd; beat them till they be throughly commix'd, adding a penny-worth of Roch Alum, dryed in a Fire-shovel, and beaten to Powder, and as much of white Starch: After this, take the whites of 8 or 10 Eggs, a handful of Bay-salt, and having beaten them together in a Tray, put them also into the Wine, filling up the Pipe again, and letting the Wine stand 2 or 3 days; in which time, the Wine will recover to be fine and bright to the Eye, and quick to the Taste; but be sure you draw it off that bottom soon, and spend it as sast as you can.

For Claret in like manner distempered with

Flying-Lee, they have this Artifice.

They take two pound of the Powder of Pebble Stones, bak'd in an Oven, the whites of 10 or 12 Eggs, a handful of Bay-falt, and having beaten them well together in two Gallons of the Wine, they mit them with that in the Cask; and after 2 or 3 day draw off the Wine from that bottom.

The same Parell serves also for White Whines up on the Frett, by the turbulency and rising of the

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To cure Rhenish of its Fretting (to which it is most Prone a little after Midsummer, as was before observed) they seldom use any other Art, but giving it vent, and covering the open Bung with a Tilor Slate; from which they are careful to wipe

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the Filth purged from the Wine by Exhalation; and after the Commotion is by this means composed, and much of the fretting matter cast forth, they observe to let it remain quiet for a Fortnight or thereabout, and then rack it into a fresh Cask, newly fumed with a Sulphurate Match, call'd in Latin Tela Sulphurata, in High Dutch Ein Schlag. ¶.

As for the various Accidents, that frequently enfue and vitiate Wine after those forementioned Reboylings, notwithstanding their suppression before they were incurable; you may please to remember, I referr'd them all to such as alter and deprave Wines either in Colour, or Consistence, or Taste, or Smell. Now for each of these Maladies our Vint-

ners are provided of a Cure, in particular,

To restore Spanish and Austrian Wines grown Yellow or Brownish, they add to them sometimes Milk alone, sometimes Milk and Isinglass well dissolved therein, sometimes Milk and white Starch; by which they force the exalted Sulphur to separate from the Liquor, and sink to the bottom; so reducing the Wine to its former clearness and whiteness. The same effect they produce with a composition of Flower de-luce Roots, and Salt-petre, Ana, 4 or 5 Ounces; the whites of 8 or 10 Eggs, and a competent quantity of common Salt, mixt and beaten in the Wine.

To amend Claret decayed in Colour, first they rack it upon a fresh Lee, either of Alicant or Red Bourdeaux Wine; then they take 3 pound of Turnfole, steep it all Night in 2 or 3 Gallons of the same Wine, and having strained the insusion through a Bag, pour the Tincture into the Hogshead (sometimes they suffer it first to fine it self in a Rundlet) and then cover the Bung-hole with a Tile, and so let it stand for 2 or 3 days; in which time the Wine usually becomes well-coloured and bright.

Some use only the Tincture of Turnfole.

Others

Others take half a Bushel of full ripe Elder Berries, pick them from their Stalks, bruife them, and put the strain'd juice into a Hogshead of discoloured Claret; and so make it drink Brisk, and appear

Bright.

Others, if the Claret be otherwise found, and the Lee good, overdraw 3 or 4 Gallons; then replenish the Vessel with as much good Red Wine, and rowl him upon his Bed, leaving him reverfed all Night : Next Morning turn him again, fo as the Bung-hole may be uppermost, which stopr, they leave the Wine to Fine. But in all thefe Cafes they observe to fet fuch newly recovered Wines abroach, the very next day after they are fined, and to draw them for fale speedily.

To correct Wines faulty in Confiftence, i.e. fuch as are Lumpish, Foul, or Ropy; they generally make use of the Powders of burnt Alum, Lime, Chalk, Plafter, Spanish White, Calcined Marble, Bay-Salt, and other the like Bodies, which cause a precipitation of the gross and viscid parts of the Wine then affoat.

For Example,

For Attenuation of Spanish Wines, that are foul and lumpish; having first rack'd them into a newly scented Cask, they make a Parell of burn'd Alum, Bay-Salt, and Conduit Water; then they add thereto a quart of Bean-Flower, or Powder of Rice, (and if the Wine be also brown and dusky, Milk, otherwise not) and beating all these well together with the Wine, blow off the Froth, and cover the bung with tir a clean Tile-stone. Lastly, they again rack the Wine W after a few days, and put it into a Cask well Scented.

Here perhaps fome, not well understanding what is meant by this scenting of Casks, will pardon me

if I make a hort stand to explain it.

They take of Brimstone 4 Ounces, of burn'd Alum Ounce, of Aqua Vite 2 Ounces; these they put together in an Earthen Pan, or Pipkin, and hold mu

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them over a Chafing Dish of glowing Coals, till th: Brimstone is melted and Runs, then they dip therein a little piece of new Canvas, and instantly sprin. kie thereon the Powders of Nutmegs, Cloves, Coriander and Anise seeds. This Canvas they fire, and let it burn out in the Bung-hole, fo as the Fume may be received into the Vessel; And this, as I have been credibly informed, is the best scent for all Nor is it a Modern Invention, both Camerarius (cap. 8. membr. fect. 23.) and Levinus Lemnius (Occult, lib. 2. cap. 48.) taking notice of the like ule among the Ancients, of fuming their Casks with Sulphur. Ut vasa à putredine defenderentur, vinumq; ipsum majorem calorem, aut Spiritus acriores acquireret.

To prevent the foulness and ropiness of Wines, the old Roman Vindemiatores used to mix Sea-water with the Must; Ut suo calore, ne Vina lentescerent, pendulag; fierent, conservaret, & dum pondere suo in vale Subsideret, faces secum ad fundum deferret. Cato de R.R. cap. 104. & Langius 2 Epist. 32. & Piin. lib. 2. cap. 1.

To cure the Ropinels of Claret, the Vintners as well French as English, have many Remedies, among which I have felected two or three, as most memo-

rable, because most usual.

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One is this, First, they give the Wine a Parell, the then draw it from the Lee, after the clarification by that Parell; this done, they infuse 2 pound of Turnthe fole in good Sackall Night, and the next Day putwith ting the firain'd infution into a Hogshead of the Wine Wine, with a spring Funnel, leave it to fine, and nted. after draw it for excellent Wine.

what Another this, They make a Lee of the Ashes of on me Vine Branches, or of Oaken Leaves, and pour it into the Wine hot, and after ftirring leave it to lettle. Alum The quantity, a quart of Lee, to a Pipe of Wine.

y put A Third, is only Spirit of Wine, which put into hold muddy Claret, serves to the refining it effectually them and speedily; the proportion being a pint of Spirit

to a Hogshead. But this is not to be used in sharp and eager Wines.

When white Wines grow foul and tawny, they only rack them on a fresh Lee, and give them time to

fine.

For the Emendation of Wines offending in Taffe, Vintners have few other Correctives, but what conduce to Clarification. Nor do they indeed much need variety in the Case; seeing all Unsavouriness of Wines whatever feems to proceed from their impurities fet affoat, and the dominion of either their Sulphureous, or Saline parts over the finer and fweeter; which causes are removed chiefly by Precipitation. For, all Clarification of Liquors may be referred to one of these three Causes. I. Separation of the groffer parts of the Liquor from the finer. 2. The equal distribution of the Spirits of the Liquor, which always rendieth bodies clear and untroubled. 3. The refining of the Spirit it felf. And the two latter are confequents of the fift, which is effected chiefly by Precipitation, the Instruments whereof are weight and viscosity of the body admixt, the one causing it to cleave to the gross parts of the Liquor flying up and down in it, the other finking them to the bottom. But this being more than Vintners commonly understand, they rest not in Clarification alone, having found out certain Specificks as it were, to palliare the feveral vices of Wines in all forts, which make them difguftful. Of thefe likewife I shall reeite two or three, of greatest use and esteem among them.

To correct Rankness, Eagerness and pricking of til Sacks and other sweet Wines. they take 20 or 30 of ne the whitest Limestones, and flack them in a Galles th of the Wine; then they add more Wine, and for them together in a Half-tub, with a Parelling fraff w! next they pour this mixture into the Hog head, and fo having again used the Parelling Instrument, Jean

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the Wine to fettle, and then rack it. This Wine I thould guess to be no ill drink for gross Bodies and Rheumatick Brains; but hurtful to good Fellows of hot and dry constitutions, and meagre habits.

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Against the Pricking of French Wines, they prescribe this easie and cheap Composition. Take of the Powder of Flanders Tile 1 pound, of Roch Alum half a pound, mix them and beat them well with a convenient quantity of the Wine, then put them into the Hogshead, as the former.

When their Rhenish Wines Prick, they first rack them into a clean and flrongly scented Cask or Vat; then add to the Wine 8 or 10 Gallons of clarified Honey, with a Gallon or two of Skim-milk, and

beatingall together, leave them to fettle.

Sometimes it happens, that Claret lofeth much of its Briskness and Picquantness, and in such case they rack it upon a good Lee of Red Wine, and put into it a Gallon of the juice of Sloes or Bullace; which, after a little Fermentation and Rest, makes the Wine drink brisk and rough. The like hath been sometimes done, as I have been told by a Drawer with Virginian Pears, call'd Metaguefunaux. Which feems highly probable, because that Fruit is of colour deeply Sanguine, and very auftere and rough of Tafte, as I observed in some that were given me, fome years fince.

To meliorate the taffe of hungry and too eager White Wines, they draw off 3 or 4 Gallons of the Wine, and infusing therein as many pounds of Malago Raifins, stoned and bruised in a stone Mortar, till the Wine hath sufficiently imbibed their sweetnels and Tincture (which it will do in a days time) Galles they run ie through an Hippocras Bagg, then put it into a fresh Cask, well scented, together with the nd fli g staff whole remainder of the Wine in the Hogshead, and

so leave it to fine.

To help flinking Wines, the general Remedy is

Racking them from their old and corrupt Lee. Be. fides which, fome give them a fragrant Smell or Flayour, by hanging in them little Baggs of Spices, fuch as Ginger, Zedoary, Cloves, Cinnamon, Orras Roots, Cubebs, Grains of Paradife, Spikenard, &c. Aromaticks. Others boyl some of the Spices in a pottle of good found Wine of the same fort, and tunn up the Decoction hot. Others correct the ill savour of Rank-lee'd French wine, with only a few Cinnamon canes hung in them. Others again for the same end use Elder Flowers, and tops of Lavender.

Having thus run over three parts of the Vintners Dispensatory, and transcribed many of their principal Secrets for the cure of the acute Diseases of Wines; we are arrived now at the fourth, which contains Medicaments proper for their Chronick Distempers, viz. Loss of Spirits, and decay of

Strength.

Concerning these, therefore is it observable, That as when Wines are in preternatural Commotions, from an excess and predomination of their Sulphureous parts, the grand Medicine is to Rack them from their Lee; 10, on the contrary, when they decline and tend toward Palling, by reason of the scarity of their Sprits and Sulphur; the most effectual Prefervative is to rack them upon other Lees, richer and stronger than their own; that being from thence Supplied with new Spirits, they may acquire somewhat more of vigour and quickness. I fay Prefervative, because there is, in truth, no Restoring of Wines after they are perfectly Pall'd and Dead ; for, nothing that is past perfection, and hath run its natural race once, can receive much amendment.

But, besides reinforcing of impoverished Wines by new and more generous. Lees, there are fundry Confections, by which also as by Cordials, the lan- fin. guithing Spirits of them may be Suffained, and to afc

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When Sacks begin to languish (which doth not often happen, especially in this City, where are so many Sack-drinkers) they refresh them with a Cordial Syrup, made of most generous Wine, of Sugar and Spices.

For Rhenish and White wines, a simple decoction of Raifins of the Sun, and a strong scented Cask,

ufually ferve the turn.

For Claret inclining to a Consumption; they prescribe a new and richer Lee, and the shavings of Firr-wood; that the Spirits being recruited by the additional Lee, may be kept from exhaling, by the unctuous substance of the Turpentine. Which artifice I have often observed, at the time of my being at Paris, to be used in the most delicare and thin bodied Wines of France; and feems to me, no improbable cante of that exceeding dulness and pain of the head, which always attends upon Debauches made with fuch Wines, as was noted long fince by Pliny, who speaking of the same (lib. 23. cap. 1.) saith, novitium refinatum nulli conducit; capitis dolorem & vertigines facit, ab hoc dicta Crapula eft, viz. raed to ndeg wander, qualidolor caput vibrans.

Nor is it a Modern Invention, but well known to, and frequently put in use by the old Romans, in simes of their greatest Wealth and Luxury. For, Pliny, (Hift. Nat. lib. 14. cap. 2.) takes fingular notice of the custom of the Italian Vintners, in mixing with their Wines Turpentine of several forts. his Words are thefe : Ratio autem condiendi Mufla, in prime fervore, qui novem diebus cumplurimum peragitur, ines afpersu Picis; ut odor vino contingat, & Saporis quedam ndry acumina. Vehementius id fieri arbitrantur, crudo flore Relan- fine, excitariq; lenitatem, &c. Yea, the Gracians long nd to afore had their Vina Picata & Refinata; as is evident fome from the commendation of fuch Wines by Plutarch (5. Sympol.

(s. Sympol. probl. 3.) and the prescription of them to Women, in some Cases, by our great Master, Hypocrates (1. de Morb. Mulier.) and were fo much delighted with their Vinum Picites, that they confecrated the Pitch tree to Bacchus,

You have heard the fum of what I have my felf obferved, and what I have transcribed from the Manuscripts of some very skilful Vintners, which I had the good luck to peruse, concerning the Remedies of the various Sicknesses, to which Wines are obnoxious.

It remains only, that I entertain your Patience, a Minute or two longer, with a taste of the more difingenuous practices of Vintners, in the Transmutation or Sophistication of Wines, which they call Trick-

ings or Compaffings.

They transform poor Rochel and Cogniak Whitewines into Rhenish, Rhenish into Sack; the Laggs of Sacks and Malmfies into Muskadels. They counterfeit Raspy wine, with Flower-de-luce Roots; verden, with decoctions of Railins; they fell decayed Xeres, vulgarly Sherry, for Lusenna wine: In all these impostures deluding the palate so neatly, that few are able to difcern the Fraud, and keeping these Arcana Lucrifera to close, that fewer can come to the knowledge of them. So that we may fay, as Pliny did, in the close of his Chapter touching the Sophistication of Wines in his days; Tot veneficiis placere cogitur, & miramur noxium elle vivum ?

As for their Metamorphosis of White into Claret, by dashing it with Red; nothing is more common-

ly either done or known.

For their conversion of White into Rhenish, they have feveral artifices to effect it, among which this

is most usual.

They take a Hogshead of Rochel, or Cogniah or Nants White Wine, rack it into a fresh Cask, strongly Cented; then give thewhite Parell, put into it & or C io Gallons of clarified Honey, or 40 pounds of

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course Sugar, and beating it well, leave it to clarifie . To give this mixture the delicate Flavour, they fometimes add a Decoction of Clary Seeds, or Galitricum; of which Druggs there is an incredible quantity used yearly at Dort, where now is the Staple of Rhenish Wines. And this is that Drink, wherewith our English Ladies are so much delighted, under the fp-cious name of Rhenish in the Must.

The manner of making adulterate Bastard, is this. Recipe, Four Gallons of White Wine, three Gallons of old Canary, five pounds of Baffard Syrup, heat them well together; put them into a clean Rundlet well scented, and give them time to fine.

Sack is made of Rhenish, either by strong Decoctions of Malago Raifins, or by a Syrup of Sack.

Sugar and Spices.

Muskadel is sophisticated with the Lags of Sack, or

Malmfey thus.

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They dissolve in a convenient quantity of Rosewater, of Musk 2 Ounces, of Calamus Aromaticus powder'd 1 Ounce, of Coriander Seed beaten half an Ounce; and while this infusion is yet warm. they put it into a Rundlet of old Sack, or Malmfey; and this they call, a Flavor for Muskadel.

Many other ways there are of Adulterating Wines, daily practifed even in this our (otherwise well govern'd) City; but in respect they all tend to the above-mentioned Alterations, and are less General: therefore I pass them over in silence. ¶.

Nor have I at present any thing more to add to this Effay toward a History of Wines, but my humble request to your Lordship, and the Honour'd Fellows of this ROYAL SOCIETY, you would be pleased to Pardon the many Defects Nants of it; and that if the Enquiries therein made come ongly short of your Expectation, you would suspend your t 8 or Curiosity until my Co-partner in this Province, the ads of Learned Dr. Merret, shall have brought in his Obfer-

## The Mystery of Vintners.

fervations concerning the same Subject. For, I doubt not but the fulnels of his Papers will supply the emptinels of mine. ¶.

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The End of the Second Treatife.

## Some Observations concerning the Ordering of Wines.

### By Dr. Merret.

HE Mystery of Wines consists in the making and meliorating of natural Wines. Melioration is either of found or vitious Wine. Sound Wines are bettered. 1. By preferving. 2. Timely fining. 3. By mending Colour Smell or Tafte.

To preserve Wines, care must be taken, that, after the Pressing, they may Ferment well; for without good Fermentation, they become Qually, (i.e.) Cloudy, Thick and Dusky, and will never fine of themselves as other Wines do; and when they are fined by Art, they must be speedily spent, or else they will become Qually again, and then by no Art recoverable.

The Principal Impediments of the Fermentation of Wines, after pressing the Grapes, are either their Unipenels when gathered, or the mixture of Rain Unripenels when gathered, or the mixture of Rain water with them, as in wet Vintages ; or elfe thro the addition of Water to rich Grapes. The Spaniards nfe Gieffo to help the Fermentation of their Canary Wines

To preferve Spanish Wines, and chiefly Canary, and thereof principally that which is Razie, which will not keep so long; they make a Layer of Grapes and Giesso, whereby it acquires a better durance and taste, and a whiter colour, most pleasing to the English.

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anary To Razie Wine is so called, because it comes from Rhenish Wine slips, sometimes renewed: The Grape of this Wine is sleshy, yielding but a little juice.

French and Rhenish Wines are chiefly and commonly preserved by the Match, thus, used at Dort in Holland: Take Brimstone 20 or 30 pounds, rack into it melted Spices, as Cloves, Cinnamon, Mace, Ginger and Coriander-seeds; and some to save Charges use the reliques of the Hippocras Bag; and having mixed these well with the Brimstone they draw through this mixture, long, square, narrow pieces of Canvas, which pieces thus drawn through the said mixture, they light and put into the Vessel at the Bung-hole, and presently stop it close: Great care is to be had in proportioning the Brimstone to the quantity and quality of the Wine, for too much makes it rough; this smoaking keeps the Wine long, white, and good, and gives it a pleasant Taste.

There's another way for French and Rhenish Wines, wiz. Firing it: 'Tis done in a Stove, or else a good fire made round about the Vessel, which will gape wide, yet the Wine runs not out; 'twill

ne of boyl, and afterwards may foon be rack'd.

Secondly, For timely fining of Wines. All Wines in the Must are more Opacous and Cloudy. Good Wine soon fines, and the gross Lees settle quickly, and also the flying Lee in time. When the grosser Lees are settled, they draw off the Wine, called Racking. The usual times for Racking, are Midsummer and Alballontide.

The practice of the Dutch and English to rid the Wine of the flying Lees speedily, and serves most

for

for French and Spanish Wine is thus performed: Take of Isinglass half a pound, stop it in half a pint of the hardest French Wine that can be got, so that the Wine may fully cover it. Let them then stand 24 hours, then pull and beat the Isinglass to pieces, and add more Wine, and 4 times a day squeez it to Gelly, and as it thickens add more Wine. When it is fully and perfectly gellyed, take a Pint or Quart to a Hogshead and so proportionably; then overdraw 3 or 4 Gallons of that Wine you intend to sine, which mix well with the said quantity of Gelly, then put this mixture to the piece of Wine and beat it with a staff, and sill it top full. Note, that French Wines must be bunged up very close, but not the Spanish; and that Isinglass raiseth the Lees to the top of strong Wine, but in weaker precipitateth it to the bottom.

They mend the colour of found Clarets by adding thereto Red Wines, Tent or Alicant, or by an infusion of Turnsole made in 2 or 3 Gallons of Wine, and then putting it into the Vessel, to be then (being well stopt) rowled for a quarter of any hour. This insusion is sometimes twice or thrice repeated according as more Colour is to be added to the Wine; some 3 hours insusion of the Turnsole is sufficient, but then it must be rubbed and wringed. What Turnsole is, see the Notes on the

Art of Glass.

Claret over Red, is amended with the Addition

of White Wines.

White Wines coming over found, but brown, and thus remedied: Take of Alabaster Powder, over the straw the Hogshead 3 or 4 Gallons, then put this Powder into the Bung, and stir and beat it with a straff, and fill it top full. The more the Wine is fairred, the finer it will come upon the Lee, that is, and finer it will be.

of To colour Sack white : Take of white Starch 2 the Jounds, of Milk 2 Gallons, boyl them together 2 24 hours, when cold, beat them well with a handful

of white Salt, and then put them into a clean and weet But, beating them with a Staff, and the Wine will be pure and white.

One pound of the aforementioned Gelly of Isinlast to Wines, mixed with 2 or 3 Gallons of Wine, acof ording as 'cis brown and strong, more or less to
the used. Then overdraw the piece of Wine about
the Gallons and use the Rod, and then fill the Vesbut el full, and in a day or two 'twill fine and be less white, and mend if Qually.

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The first Buds of Ribes Nigra infused in Wines, specially Rhenish, makes it diuretick and more ragrant in Smell and Taste, and so doth Clary. The inconvenience is, that the Wine becomes nore heady, a Remedy whereof is Elder-slowers deed to the Clary; which also betters the fragran-

dded to the Clary; which also betters the fragrany thereof, as 'tis manifest in Elder-vinegar. But
rice hese Flowers are apt to make the Wine Ropy.

To help brown Malagoes and Spanish Wines, take
owder of Orras-roots and Salt-petie, of each 4
unnand ounces, the whites of 8 Eggs, whereto add as much
alt as will make a Brine, put this mixture into the
Vine, and mix them with a Staff.

To meliorate Muddy and Tawny Clarets; Take
f Rain-water 2 Pints, the Yelks of 8 Eggs, Salt an
own,
over
this tod, and in 3 days it will come to it self.

To amend the Tasse and Smell of Malago. Take
the best Almonds 4 Pounds, make therewith,
at is,
at is, an Emulsion; then take the whites and yelks ed, an Emulsion; then take the whites and yelks 12 Eggs, beat them together with Salt an hand-To al, put them into the Pipe, using the Red. To

To amend the Smell and Taste of French and Rhe ne wish which are foul. Take, to an Auln of the Wine of Honey one Pound, of Elder flowers a handful cy Orras Powder an ounce, one Nutmeg, a few off Cloves, boyl them in sufficient quantity of the Wine to be cured, to the consumption of half when 'tis cold, strain and use it with the Rod some add a little Salt. If the Wine be sweet enough add of spirits of Wine one pound to a Hogshead and give the Cask a strong scane. and give the Cask a firong scent. Spirit of Win makes any Wine brisk, and fines it without the for mer mixture.

A Lee of the Ashes of Vinebranches, viz. a quar hit to a Pipe, being beaten into the Wine, cures the Ropinels of it; and so infallibly doth a Lee oak Oaken Ashes. For Spanish ropy Wine, rack it from one Pound, Orras roots Powdered half a Pound beat them well into the Wine with a staff. Som add fine and well-dryed Sand, put warm to the Wine. If the Wine besides prove Brown, add Wine. If the Wine besides prove Brown, add un Pottles of Milk to a Pipe. Alius, the Spaen cure ull ropy Wine, used before it begins to fret.

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Herring Roes preferve any Stum Wines.

To order Rhenish Wines when fretting. Com monly in June that Wines begin to ferment an grow fick, then have a special care not to disturb it, either by removing, filling the Vessel, or givin it Vent, only open the Bung, which cover with Slate, and as often as the Slate is foul, cleanse makes and the bung from their Filth, and when the Fe mentation is past, which you shall know by applieding your Ear to the Vessel, then give it rest 10 comes to days that the grown I am and when the re-12 days that the groffer Lees may fettle, then radies it into a fresh scented Cask.

This mixture Meliorates vitious Wines both mell and taste; especially French. Take of the he ne third of found old Wine of the same kind; ne third of found old Wine of the same kind; ne oyl them on a gentle fire to a third part, scumming sew of they have a Pail of fair Water standing by to the infe it in) then put this mixture hot into a Vessell of fit capacity, and let it stand unbunged till cool. ome, to better this, put in a bag of Spices. This ight ixture, called by the Dutch Soet, will serve also to ead ne any Wine new or old. 2. Twill mend the ard taste of Wine (i. e.) putting a Gallon thereof to a Hogshead, and using the Rod, and then let it set of days at the least, but if mild enough, add

a Hoghead, and using the Rod, and then let it it for 6 days at the least, but if mild enough, add hite Mustard-seed bruised.

To mend and preserve the Colour of Clarets, ake red Beet roots q. s. scrape them clean and cut em into small pieces, then boyl them in q. s. of the me Wine, to the consumption of a third part, and it well, and when cool, decant off what's clear, d use the Rod.

Alias, Take of the Wine and Honey of each a unds, Rainwater a Pottle, 12 Beet-roots, ripe ulberries 4 or 5 handfuls, boyl them to half, and hen cool decant, &c. ut supra.

nen cool decant, &c. ut supra.

To preserve Claret rack'd from its Lees. Take to Fierce to Eggs, make a small hole in the top of it and Shells, then put them into the Wine, and all little be consumed.

To prevent souring of French Wines. Take ains of Paradise q. s. beat them in a Pan, and hang in or put them loose into a Vessel. Some use Lagrange in or put them loose into a Vessel. Some use Lagrange in the tops.

To help sour French Wine. Take of the best heat 4 Ounces boyled in fair water till it break, when cold put it into a Vat in a Bag, and use the both in the cold put it into a Vat in a Bag, and use the both in up well.

To help Spanish sour Wines. First, rack the Wine its, as a clean Cask, and fill it up with two or three Gal-

Gallons of Water, and add thereto of burnt Chalk 4 and Ounces, and after 3 or 4 days it must be rack'd and I silled up again with rain Water, if the first time dot 1 not do it. Some use Loam or Plaistering, if these In gredients make the Wine bitter, correct the faul with Nutmegs and Cloves.

To help stinking Wines. Take Ginger half ar li Ounce, Zedoary 2 Drams, Powder and boyl then ar in a Portle of good Wine, which put scalding ho into the Vat, bung it up and let it lie; the spe cies of Diambra and Diamoscu Dulc. do the same; and so Nutmegs and Cloves which also give a kind oin

Razinefs.

To help Wine that hath an ill savour from the Lees. First, rack it into a clean Cask, and if Red owl Claret, give him a fresh Lee of the same kind: The intake of Cloves, Ginger and Cinnamon 2 Ounce wi Orras Root 4 Ounces; Powder them grosly, han of them in a Bag, and taste the Wine once in 3 day he and when 'tis amended take out the Bag. Some do thus, Take of Cloves half a pound, Mastick, Gingen to Cubebs, of each 2 Ounces, Spica Nardi 3 Drachmout Orras Root half a pound, make thereof a fine Power der, which put loose into the Vat, and use the Rohe and make a good fire before it.

Firing of Wines in Germany is thus performed on they have in some Vaults 3 or 4 Stoves, which the nly heat very hot; others make fires almost before every Vat, by this means the Must fermenteth wileque that Vehemency, that the Wine appears between to I staves; when this Ebullition, Fermentation are I working ceaseth, let the Wine stand some days, and then rack it. This firing is only used in cold year. So

when the Wine falls out green.

Stum is nothing else but pure Wine kept fro A fretting by often racking and matching it in cle Vir Vessels and strongly scented (i. e.) new matched, fea means whereof it becomes as clear or clearer thora

any other Wine, preserving it self from both its and I ees by precipitation of them. But if through neglect lest it once fret, it becomes good Wine. The Bung In of the Vessel must be continually stopt, and the Vessel must be continually stopt. faul fels strong least they break. A little Stum put to Wine decayed, makes it ferment afresh, and gives farlise and sweetness thereto, but offends the head hen and stomach, torments the guts, and is apt to ho cause loosnesses, and some say Barrenness in Wofpe men.

and To fine Wine presently. Fill a Cask with shavnd dings or chips of Beech or Oak (which are best) this s to be done with much art, or elfe it feldom hits n thright, but lasteth long; put these chips into a Cask, dwhich is called by the Dutch een Spaen (i.e.) a Chip, The into which they pour in as much Wine as the Cask ince will hold, and in 24 hours the Wine will be fine. Or han quart of Vinegar in three days will fine a Hogf-dayhead of Wine.

do To set old Wine a fretting being deadish and dull ingen taste. Take of Stum 2 Gallons, to a Hogshead, chaput it hot upon the Wine; then set a Pan of sire be-Powore the Hogshead, which will then Ferment till all Ro he sweetness of the Stum is communicated to the

Wine, which thereby becomes brisk and pleasant, rmee ome use this Stumming at any time, some in August thinly, when the Wine hath a Disposition to fret of re eviself, more or less Stum to be added, as the Wine has well with the best time to rack Wine is the decrease of

n athe Moon, and when the Wine is free from fretting: ys, ane wind being at North east, or North west, and not d year South, the Sky serene, free from Thunder and

ightning.
of fro Another Match for French Clarets and Spanish on clevines. Take Orras-roots, Mastick and Brimstone, hed, feach 4 Ounces, Cloves 2 Ounces, ordering it ut rer there in Matching Wines. This will ferve for all

Wines, adding if you pleafe Nutmegs, Ginger, Cinnamon and other Spices. Double the quantity of

Orras-root is to be used for Spanish Wines.

To help Malago's which will not fine. Take of crude Tartar powdered, lifted and dryed 2 pounds, mix it with the whites of 6 Eggs; dry powder and fift them again, then overdraw the Pipe as much as will ferve to mix with this Powder, and fill the Pipe therewith, beating it with a Staff as before, and this Wine will be fine in ten days.

Another speedy way to fine French Wines. Hang a piece of scent in the Cask, and when tis burnt out, put in a pint of the best Spirit of Wine, and flir it about. Some add, a little Salt well dryed:

This fines the Wine in 24 hours.

To keep Must a Year. Take Must, put it into a Cask pitcht within and without, half full, stop the bung close with Mortar. Others sew the Cask in Skins, and sink it for 30 days into a Well or River. Or else a Garland of Polium Montanum hung in the Vessel. Or rub the inside of the Vessel with Cheese; all these preserve Rhenish Must, as the Scholiast on Dodonaus in Dutch.

Alum put into a Hogs-bladder, keeps Wine from turning flat, faint or brown, and beaten with

the whites of Eggs removes its repinels.

Flat Wines recovered with Spirit of Wine, Raisins and Sugar or Molosses; and Sacks, by drawing

them on fresh Lees.

Our Wine-coopers of latter times use vast quantities of Sugar and Molosses to all sorts of Wines, to make them drink brisk and sparkling, and to give them Spirits, as also to mend their bad tastes; all which Raisins and Cute and Stum perform.

Countrey Vintners feed their fretting Wines with raw Beef; and here, their Canaries with Malago, which is added more or less to all Ca-

naries.

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The composition of Wines is manifold, the Vintners usually drawing out of 2 or 3 Casks, for one Pint, to accommodate it to the Palate of those that drink it. Most of the Canary is made with Malago and Zerez Sack.

I shall conclude with two common compounded Wines, Mulcaden and Hippecras, the former usually made with 30 Gallons of Cute (which is Wine boyled to the consumption of half) to a Butt of Wine. Or the Lees and droppings boyl'd and clarified; its Flavour is made of Coriander Seeds prepared and shavings of Cyprus wood. Some instead of Cute, make it of Sugar, Molosses and Honey, or mix them with the Cute. This following is an Hippecras of my own making, and the best I have tasked.

Take of Cardamoms, Carpobalfamum of each half an Ounce, Coriander feeds prepared, Nutmegs, Ginger, of each 2 Ounces, Cloves 2 Drachms; bruife and infuse them forty eight hours in Zerez and White Wine, of each a Gallon, often stirring them, then add thereto of Milk three pints, strain through an Hippocras Bag, and sweeten it with a

poung of Sugar-Candy.

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# The Art and Mystery of Vintners and Wine-Coopers.

of Winters manifold.

1. The best way for to help the fretting or boyling of any piece of Spanish Wine.

Ake the Butt or Pipethat frets or boyls, and rack it off clean from the groß Lee; then take two or three penny worth of the strongest Aqua Vita, and put it in at the Bung-hole, as you do a piece of Scent, and it will burn in the Pipe very well: Be fure that you drain the Pipe well; and this will lay the fretting of it.

2. To keep Wines found and fresh all the year.

Weeks with your Vessel once a Month or six Weeks with your best Reeds you can get: for Reeds do preserve the Claret as Soot doth Malmsey or Bastard. Fill White and all other Wines with the same; and those you intend to keep, give them their Lees a day together; then at Night lay them upright, and be careful to keep them; if they lack vent in any place they will faint and spoil.

Note that July and August are the worst Months

to keep Wines in.

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#### 3. For Canary that hath a flying Lee:

Fyour Canary hath a flying Lee, and will not fine down, draw him into a fresh Burt or Pipe with fresh Lees, and give him a good pearl with the whites of 8 Eggs, and beat them with a handful of white Salt: And if it be any whit tawny, put thereto a gallon of Milk, and beat it well, then lay it upright, stop it close; and in two days broach it if you will.

#### 4. To make or divide Malmfey.

IF you have three Butts of Malmfey you may make four if you please: If you have two, you may make three; if one Butt, you may make one and a half thereof, with such Laggs as you have of White, Claret, and Canary that are old, with two Gallons of Cutt to every Butt, so that it be Spanish Cutt. This way you may rid your Laggs and old Canary away. The Art followeths

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#### 5. The Art of Making or Dividing Malmley.

Ake to every Butt fix Eggs both yelks and whites, and a handful of Bay-falt, beat them well together, mixing therewith a pint of old Sack, and put it into the Butt; then beat the Butt well; and if it want a colour, take two Gallons of Redwine, and a quarter of a pound of Coriander-feed well beaten small; mix them together, and put them into the Butt; then give it fix or eight stroaks more, then stop it three or four days; broach it after at your will.

cream be forded for so hears; such taim is not or

6: For Claret that hat hat left his Colour.

Ake a pennyworth of Damscens or Bullace or more if you fee good, and flew them in Redwine, and make a pottle or more of the Syrup.

7. For Baftard that pricks.

Ack him upon a good Muscadine Lee, then take three gallons of the best Ale; and put therein two or three Almonds, then fill it up with Baftard Syrup or Canary mixed with your Laggs, and it will draw for Baffard or Muscadine.

3: Another for the Jame.

Ake five gallons of clarified Honey, and put it into your Cask, and beat in it a pearl of the whites and yelks of 6 Eggs, and let it reft.

9. To make brown Baftard.

Ake the Laggs of Claret or White, and put them into your Cask, with your Laggs of Spanish Wine before you do prick; then take 30 or 40 pounds of Bastard Syrup, and beat it well with the same Wine in a half Tub, then put it into your Cask and beat it up with pearl of the yelks and whites of Eggs, and let it reft.

10. For White-wine that hath loft its colour with lying.

Verdraw the Hogshead of Wine some five or fix Gallons; take three Gallons of new Milk, put it into a Pale, and let it remain there till the cream be fettled for 30 hours ; then skim it and put it into the Hogshead, and beat it well, and then fill

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ti fi it up; and if it be in the Morning, the next Morning it will be fine: you may add to it a little Starch and a little Bay-falt beaten together as aforefaid.

11. Sack that is lumpift or lowring.

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Beat the whites of 6 or 8 Eggs with Bay-falt, Roch alum, and a quart of Bean-flower or beaten Rice, if it be brown, but if white use Milk; beat all these together, then blow off the froth very clean, and lay a clean sherd of a Tile over the Bunghole: let it lie till it be fine, then rack it off with a good scent, and it will draw well.

12. For Sack or any other Wine that doth prick or boyl.

Ake 30 or 40 of the whitest Lime-stones you can get, slake them in a pottle of the same Wine in a Can, then take more Wine and stir them together; and put it into your Cask, and stir it well till you think it be enough. Let it rest till it be fine, and it will take away the pricking, and make it drink kindly.

#### 13. How to make Scent.

Take four Ounces of Brimstone and a little Alum, and a spoonful of Agua Vite and mix them together, then take a piece of new Canvas and dip therein; then must you have in readiness the powder of Nutmegs and a few Cloves or Orange peels, a few Coriander-seeds and Aniseeds, being ready bruised before your Brimstone be cold; strew them upon your Cloth, and when it is cold lay it upon a clean Paper, and it will be very good for your Cask.

#### 14. How to make Hippocras.

Take for a gallon of White a pound of Sugar, one Ounce of Cinnamon beaten, 2 or 3 ounces of unce Cloves, two ounces of Gallingal, half an ounce of yor Grenes; bruile your spice together with a handful of Rosemary, and let it stand and sleep 12 hours, then stir it well together, and put it into an Hippocras Bag, and let it run into a clear Vessel, and so you may draw it.

## 15. To fine your Wines and make them pleafant.

Take white peble stones, and bake them in an Oven till they begin to crack, then beat them to fine Powder; then with a good quantity of Stonehoney clarified, and so in some of the same dissolve them and put them into your Cask, and ftir them with your paddle staff, and in a day they will be fine.

#### 16. For Hippocras Gyle.

Vinnamon one ounce, Ginger half an ounce, grain 2d. Long-pepper, Cloves, Coriander-feeds, Calamus, Andores, Nutmegs, Carawayfeeds 2 d. Limons, Rose water, Bay leaves and Rosemary.

#### 17. Another for the Same.

Inger 3 ounces, Cinnamon 3 ounces, Calamus I one ounce, Cloves half an ounce, Coriander feeds three ounces, Nutmegs three pennyworth, Long-pepper three pennyworth.

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## 18. Another for the Same.

Innamon 3 ounces, Cariophyllorum 2 ounces, Cardamum and Cubebs, Gallingal half an unce, Gingiberis one ounce, Cantherum 3 pennyvorth, Grana Paradifi 3 pennyworth.

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191 Then for the Spanish Wines, Sherry, Sacks, white and hard be best.

Right Malago's are as good as Canaries, but the other are pleafanter.

Right Muscadines are hard to come by, therefore hey are commonly compounded.

#### 20. Wines commonly compounded.

Pocris, brown Bastard, white Bastard, Rumrey, Hallacker, Aligant: and these likewise, Frantigiack, Tent, Cutt, Rhenish, and Deal Wines.

## 21. The fittest times torack Wines.

Ack your Wines when the wind is in the North, and when it is clear and temperate reacher; in the increase of the Moon, when she is nder the Earth, and not in the full heighth. They are eager before Whitsuntide; through extraordiary heat they turn eager, or otherwise ill-conditioned.

#### 22. For White-wine that hath loft its Colour.

Irst rack him from his Lees, then if you have any Coniack Lees, you may put your faint and wny Wine spon them; rowl them over and beat them,

1115 627 567 them, and within the space of 10 or 12 days rack them off; then shall you have it drink brisk and white.

#### 23. How to break Wine that ropes.

TAke a course harden Cloth, and put it before th Bore when you have fet it abroach; then pu in your Leathers, and rack it into a dry Caster the take 5 or 6 ounces of beaten Alum, and put in in and beat that Wine and Alum well together, and nd it will fine down very well.

## 24. How to make any Wine fine feedily.

Ake a handful of dryed Limon-rind, and puller it into 10 or 12 Gallons of White, and put i therein a pint of Damask-Rose-water; then row ; it up and down, and lay it upright; then take ind fprig of Clarey that is feeded, and let it fleep a hours; then take it out, and it will appear very well.

## 25. If a Hoghead of Claret hath loft its Colour.

Ake one Gallon of Sloes and Damascens, oDra Black-Cherries, bruise them well and strait g Wine, and it will drink very well.

#### 26. How to mend the Colour of White-wine.

Ake 3 or 4 Gallons of Milk, or less, accor ding as you think fit or do find the Colou of the Wine decayed; put it into your Hogshead put put in 3 or 4 ounces; then fill up your Hogshead Bur

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nd rowl it 4 or 5 times over, and lay it up, that ou may rack it when it is fine.

27. How to mend a Piece of Canary, or a Butt of Malago that is brown.

Ake 5 or 6 Gallons of Milk, if it be very brown; if not, take as much an and over-draw your Butt or Pipe ; then put in your Milk, and beat it a good while; and when it is vell beaten, take 5 or 6 ounces of Roch-Alum, and but it therein; then give it fome 30 or 40 stroaks; hen fill up your Cask, and let it lie till it be fine ; puhen rack it off from its white bottom, and rack put into a clear Cask, and burn a piece of Scent in rowt; and then fill it up, and let it lie till it be fine, ke and it will fpend very well. P 2

28. For to flower a Butt of Muskadine.

Take one grain of Musk, one ounce of Cloves, one ounce of Nutmegs, one of Annifeeds, and one ounce of Coriander-feeds, and two handfuls of s, o Drange and Limon-Peels well dryed and beaten, and train grain of Long-Pepper together; put it into a bag, would hang it in the Bung-hole for some 2 or 3 days ogether with 10 Gallons of Bastard.

29. How to make Rhenifb-wine.

ccor Take one handful of dryed Limon-peels, an I put olou them into 10 or 12 Gallons of White-wine, and lead put in one pint of Damask-Rose-water; then rowl head Bung of it, and take a little branch of Clary, and an et it feep 24 hours ; then take it out, and it will afte very well.

30.

Butt of Malago if it be full gaged 126 Gallons, the Tun is 232 or 252 Gallons, and every Sestion is 4 Gallons, and at 12 d. the Gallon.

## 31. A Pearl for Malmfey.

A S you pearl your Muskadine, so you must your Malmsey, but use not the whites of Eggs.

32. A Pearl for Muskadine. THen it comes to be fine, within 4 hours after take new-laid Eggs, beat them Shells and all, with two handfuls of Bay-Salt; put to the fame a quart of good Sack which is old; a handful of white Sugar-candy beaten small; then beat them all together very well ; then over-draw your Butt fome 9 or 10 Gallons; then beat your Butt an hour then put in your Pearl; then beat him again gently half an hour, stop him close up, and in 24 hours breach him.

#### 33. How to make Tawny Baftard white.

Thit be full, draw out to or 12 Gallons; then fill it near up within 10 Gallons, with the Lags of Rothal and Gascoign Wines for Sack ; and take ; Gallons of Milk, and 8 whites of Eggs; a handful of Bay-Salt, and as much Whiting; beat them all together; then mingle them well with Milk, and put them into the Bastard, and beat it well for half an hour; then fill him full with your Lags, and give him 8 or 9 stroaks, stop it close, and within 3 days you may broach him.

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TF red Wine be faint, draw it out into fresh Lees. and put into him 4 or 5 Gallons of Alicant; then turn him twice in the Lees, and let him lie with the Bung upright y days before you broach him, and it will have a good colour and taffe.

> 35. A Pearl for Scent and Flavour for a Butt of Muskadine.

TAke a quarter of a yard of Canvas, and make a fter Bag of it; then take an ounce of Calamus Aroe a maticus; of Floras 2 ounces; of Orras one ounce; hite of Coriander-feed as much ; of Anniseeds bruised toin the midst of the Wine 3 days and nights; then ur ; take it out ; after that 2 grains of Civet ; as much Musk; a pint of Damask-Rose-water, warm the entwater blood-warm, rub well the Musk with the urs back of a and so put it into the Butt. and flop it close, and rowl him, but turn him nor over, and it will be perfect in 2 days.

36. If White have an ill Tafte or Scent.

s of T TAlf draw him out ; then take to either part 2 gallons of Mornings Milk, or more, and a dful handful of Rice, and as much Bay-Salt; beat them together with a Paddle-flaff for half an hour ; then and fill up the Hogshead, and rowl it well, and turn it over in the Lees, and broach him within two days.

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## 37. If Claret be faint and want colour.

Raw it offinto a fresh Hogshead and fresh Lees as can be gotten, and draw it out very closely; then take two pennyworth of Turnsole, lay it in steep in 3 or 4 gallons of the same Wine for 3 hours; then rub it and all to wash with your hands, till it colour your Wine deeply; then put it into the Hogshead; then draw as much out and use accordingly, and so the 3d. or 4th. time rowl it half an hour, and lay it up stoppid, and in 3 days broach it.

## 38. A plenfant Scent for Red Wine.

Take 2 ounces of Brimstone, half an ounce of Calamus, mix them together in a pint and half of Burrage-water; melt the Brimstone in a Pan, and let the rest be with it therein; dip it in so many clear sas will take it up, and put the cloaths in your linead; then take out your Ashes, and rack your Wine in; then put in it a pint of Rose-water, rowl it well half an hour, and it being close stopt, let it lie 2 days, and this shall give it or any other Gascoign wine, a pleasant scent or taste.

## 39. If a Butt of Sack be Small.

Take half a peck of Lime-stones well burned, put them in at the Bung-hole amongst the Wine, then beat or rowl it well together, and let it lye till it be fine, then rack it off into a clean Cask, and fill it full and draw it off when you please.

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Ake z pennyworth of Roch Alum and bruise it small to powder: over-draw the Hogshead sour allons, then strow the powder therein, and beat well half an hour; then fill it up and broach it ithin three days, and be sure it take no vene.

41. If Sack or White-wine have loft it's colour.

Ake four gallons of Milk, let it stand three hours in a Tub; skim of the cream, and overdraw our Hogshead 6 gallons: take the yelks of six Eggs eaten; put them into your Milk, and beat them gether, and put them into the Wine, and beat the Vine well, and stop it up close, and in four days raw it.

2. How to mend a Butt of Sack, Malago, or Pipe of Canary that pricks.

Take about 8 or 10 ounces of mere Chalk, beat it very well, and put it in steep in 4 or 5 gallons of silk; put in about two pounds of powder'd Sugar cording to the hardness of the Wine: let this lie in steep a day and night; stir it together now and sen, so as when you put in your Wine; beat it associately well before you put it in, then put it in sfast as you can, and beat it sustily for a quarter fan hour; lay it upright and it will take away the ricking of it and fine it.

The end of the First Books.

## The Second Book.

gerness of Wines, as Sack and Malago, or any other Sweet Wines.

Ake 20 or 30 of the whitest Limestones, and slack them in a gallon of the Best Wine, then add more Wine, and stir them toge. ther in a Half-Tub with a Paddle-staff: pour this mixture into the Hogshead, and again use the Paddle-staff: Let the Wine settle, and then rack it off from the white-bottom.

## 2. Against the pricking of French-wines.

Take of the powder of Tile one pound, Roch-fre alum half a pound; mix them and beat them well together with some of the Wine, then put them les into your Hogsheads as the former.

#### 3. When Rhenish wines prick.

Ack them into a clean and strongly scented Cask or Phat; add then to the Wine 8 or 10 callons of clarified Honey, with one gallon or 2 of kim'd Milk; beat them all together, and set them settle.

## 4. For Claret that bath lost its briskness.

Ack it upon a good Lee of red Wine, and put into it a gallon of the juice of Sloes or Bulace; which after a little fomentation and rest makes Wine drink brisk and rough.

#### 5. Another.

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THE like may be done with Virginian Pears, otherwise called Metagane Sunaum, which hath a deep sanguine colour, and a rough taste.

# 6. To meliorate the take of hungry and too eager White-wines.

Raw off 3 or 4 gallons of the Wine, and infuse therein as many pounds of Malago Raifins, stoned and brussed in a stone Mortar till the
Wine hath sufficiently imbibed their sweetness and
incture, which it will do in a days time; then run
it through an Hippocras-bag, and put it into a
sechfresh Cask well scented, together with the whole
hem remainder of the Wine in the Hogshead, and so
hem leave it to fine.

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## 7. To help flinking Wines.

an THE best way is to rack them from their old and Ru corrupt Lee; besides you must give them a fragrant smell or flavour, by hanging in them a little bag of Spices, fuch as Ginger, Zedoary, Cloves Cinnamon, Orras roots, Cubebs, grains of Paradife, A Spicknard : Or you may use these only; Cinnamon-Canes hung in it ; some use Elder flowers ver and tops of Lavender. it

## 8. For Claret that decayeth.

Ack it upon a new and fresh Lee, and the shave ing of Fir-wood, which will bring it to its body again.

#### 9. How to make Baffard.

TAke 4 gallons of White, 3 gallons of Canary that is old, 5 pound of Bastard-Syrup; beat them well together, and put them into a clean Rundlet well fcented, and give it time to fine.

#### 10. How to make Rhenifbs

Ake a Hoghead of Rochel-Cogniacks, or Nant White-wine; rack it into a fresh Cask strong by scented; then give your white Pearl; put into a stresh cask strong it 8 or 10 gallons of charified Honey, and 4 pound of coarse Sugar; beat it well, and leave it to charifie; then to give it the savent and the same of coarse sugar; fie ; then to give it the flavour, add the Decoction ou of Clary-feeds or Gallitricum, and that will give ind the right tafte.

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How to make Muskadel.

Take a convenient quantity of Rose-water, of Musk 2 ounces, of Calamus Aromaticus one ounce, of Coriander feeds beaten half an ounce; and whilft this Infusion is yet warm, put it into a Rundlet of old Sack or Malmfey.

ttle 12. If an Hogshead of Claret be sound and hath lost its

Colour.

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ife, ADD to it Red-wine, Tent or Allicant, or by an Infusion of Turnsole, as much as you think coners venient, infused in 2 or 3 gallons of Wine; and then put it into the Vessel to be well stopp'd, rowl it a quarter of an hour; this Infusion is twice or thrice repeated fometimes, according as more coour is to be added to the Wine ; fome 3 hours inhav usion of the Turnsole will be sufficient, but then o its ee the Notes or the Arts of Glass.

3. White-wines that come over found, and have lost their

colour, and turn brown.

TAke of Alabaster-powder 3 or 4 ounces, and draw over the Hogshead 3 or 4 gallons; then that out of this powder into the Bung as much as you hem hink fir, and beat it up with a Staff, and then fillit ndlet up top full; the more the Wine is stirred up, the iner it will become upon the Lee.

14. To colour Sack-white.

TAke of white Starch 2 pound, of Milk 2 gallons, boyl them together 2 hours; it being cold, bear ong t well with a handful of Salt therein, the Salt must intend then put is included in the salt must be racked Nant ound not then put it intoit; the Wine being racked in-clari- oa fresh Butt or Pipe, beat it well together with our Paddle-staff, and it will make the Wine pure ive ind fine.

15 Of Rhenish-wine. THE first Buds of Ribes migra infused in Wines, especially of Rhenish-wine, makes it diversick, and more fragrant in smell and taste, and so doth Clary: The inconvenience is, that the Wine becomes more heady; the remedy of which is Elderflowers added to Clary, which also betters the fragrancy thereof, as it is manifest in Elder-vinegar; but these Flowers are apt to make the Wine ropy. 16. To kelp Malago's, or any other Spanish Wine, that po

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TAke the powder of Orras-roots and Salt-peter, of ad each 4 ounces, the whites of 8 Eggs, to which W add as much Salt as will make Brine; put this mix-po ture into the Wine, and mix them with a Paddle-

hath loft their colour, or turned brown.

ftaff.

TAke of the best Almonds 4 pound, make with them and a sufficient quantity of the Wine to pe them and a sufficient quantity of the Wine to But be cured, an Emulsion; take then the Whites of all twelve Eggs, and a handful of Salt; put all into the Pipe or Butt, and beat it well with a Paddle-he little ou

18. To help Claret that is Tawny or Muddy.

Take of Rain-water one quart, 8 Eggs, a handful her of Salt ; beat them well, and let them ftand fix ee hours before you put them into the Cask; then as use the Paddle-staff, and it will come to it felf in ; days.

19. To mend the take and smell of French Wines or Rhe nifb, that are foul.

TAke a gallon of the Wine, a pound of Honey, handful of Elder-flowers, Orras-powder on ounce, a Nutmeg, and a few Cloves; boyl them it a sufficient quantity of the Wine to be cured, of the consumption of half; when it is cold, strain it, and beat it with a Stick; put a little Salt, if the Win beat it with a Stick; put a little Salt, if the Win to a Hogshead, and give the Cask a ffrong fcent; spirit of Wine makes any Wine strongly brisk, and fines without any further mixture

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20. A Lee of the After.

OF Vine-branches one ounce ; a quart to a Pipe being bearen into the Wine cures the ropiness ra- of it, and the same infallibly doth the Lee of O.ken Ashes; for Spanish ropy Wines, rack it off from its Lee into a new scented Cask; take of Alum one hat pound, of Orras-roots powdered half a pound; beat them well into the Wine with a Paddle-ftaff; of add fine and well dried Sand, put it warm to the ich Wine ; if the Wine besides prove brown, add ; pottles of Milk to a Pipe; otherwise it cures ropy wines, used before they begin to fret.

21. To order Rhenish-wines.

Hen fretting commonly in June, when Wines begin to ferment and grow fick, then have a pecial care of disturbing them, either by removing, sofilling of Vessels, of giving Vent, only open the sinto Bung, which cover with a Slate, and as often as the Slate is foul, cleanse it and the Bung from lith; and when the Fermentation is past, which ou shall know by applying your ear to the Vessel, d fix ees may fettle; then rack it into a fresh scented dfu hen give it rest 10 or 12 days, that the gross

22. To mend and preserve the colour of Clarets.

hem in a quart of the same Wine, till a third part econsumed; skim it well, and when it is cold, ake what is clear of it (or decant) and use the Padem is le-staff. in 3

23. Another for the Same.

Ake of the Wine and Honey of each 2 pound, of Rain-water a pottle, 12 Beet-roots, 4 or 5 Win To Rain-water a pottle, 12 Beet-roots, 4 or 5 andfule of ripe Mulberries; boyl them to half, E 2

when it's cool, decant with the use of the Paddle-flaff.

24. To meliorate vicious Wines, and especially French,

both in smell and tafte. Ake of the best Honey one pint, of Rain-water 2 parts, and the third part of Wine old, of the same kind; boy! them on a gentle fire to a third part, skimming them often with a Skimmer, and dip the Skimmer into a Pail of clean water every time after it hath been skimmed, once to rince the Skimmer; then put this mixture into a Vessel of fit capacity, and let it stand unbunged till it cool: Some to better this, put in a bag of Spices: this mixture, called by the Datch, Soe, will ferve to fine Wines new or old; it will amend the hard tafte of Wines, and in each putting of a gallon thereof into a Hogshead, and using the Paddle-staff, let it rest , or 6 days at least; but if mild enough, add white Mustard seed bruised.

25. To mend and preserve the Lees of Clarets.

Take to a Tierce 10 Eggs, make a small hole in the top of the shells; then put them into the Wine, and all will be consumed.

26. To prevent Scouring of French Wines.

Take grains of Paradise (q. s.) beat them in a Pan, and hang them or put them loose in a Vessel; some use Lavender tops.

27. To help French Wines that are fowre.

Take 4 ounces of the best Wheat boyled in sain water till it break, and then when it's cold, put it into a Phatt in a bag, and use the Paddle-staff otherwise take 5 or 6 Cinnamon-canes, bung then well,

28 To help Spanish Wines that are sowre.

Irst rack the Wines into a clear Cask, and fill in up with 2 or 3 gallons of Water; after 3 or days it must be rack'd and filled up again with Rain water

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water; if the first doth not do, some use Lome or Plastering: If these ingredients make the Wine bitter, correct the fault with Nutmegs and Cloves.

29. To help Stinking Wines.

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Take Ginger half an ounce, Zedoary 2 drams; pound and boyl them in a pottle of good Wine, which put scalding hot into the Phatt; bung it up, and let it lie the space of two days; Diambre and Diomoscu dalce do the same, and so Nutmegs and Cloves, which also give a kind of Racinels.

30. To help Wine that hath an ill savour from Lees.

R Ack it into a clean Cask, and if it be White or Claret, give it a fresh Lee of the same Wine, then of Cloves, Conger and Cinnamon 2 ounces, Orras roots 4 ounces; powder them grosly, hang them in a Bag, and taste the Wine once in three days, and when its amended, take out the Bag.

31. Or as feme do it.

Ake of Cloves half a pound, Mastick, Ginger, Cubebs, of each 2 ounces, Spicknard 2 drams, Orras-roots half a pound; make thereof a fine Powder, and put it loose in the Phatt, and use the Paddle-staff, then make a good fire before it.

32. The best time to rack Wine.

Is at the Decrease of the Moon, and when the Wine is free from fretting, the Wind being at North-east or North-west, and not at South, the Heavens free from Thundering and Lightning.

33. For a Scent for French and Spanish Wines.

TAke Orras-roots, Mastrick and Brimstone, of each 4 ounces, of Cloves 2 ounces, ordering ut supra, in making Wines this will serve for all Wines, adding if you please, Nutmegs, Ginger, Cinnamon,

and other Spices; double the quantity of Orras-

34. To help Malago's that will not fine.

Take crude Tartar powder sisted and dried 2 pounds, mix it with the whites of six Eggs dried to a powder; then sist them again, then overdraw the Pipes as much as will serve to mix this Powder, and fill the Pipe therewith, beating it with a staff as before, and the Wine will be fine in 10 days.

Ang a piece of Scent in the Cack, and when is burn'd, out, put in a pint of the best spirit of Wine, and stir it about; some add a little Salt well dried, this sines Wine in 24 hours.

36 To teep Must a year.

Take Must, put it into a Cask pitch'd within and without half full, stop the Bung close with Mortar; otherwise sew the Cask in Skins, and sink it for 30 days in a Well or River, or else a Garland of Pulvium Montanium to hang in the Vessel; or else rub the inside with Cheese: These preserve the Rhenith Must, as the Scholiast on Dodorus in Dutch.

A Lum put into a Hogs Bladder keeps Wine from turning flat, faint or brown, and beaten with

whites of Eggs removes its Ropinels.

Wines recovered with Spirits of Wine, Raisins and Sugar, or Molosses; and Sacks, by drawing them on fresh Lees.

39. How to make Maskadine.

Take 30 gallons of Soot, which is Wine boyled to a Consumption of half, to a Butt of Wine, or the Lees and droppings boyled and clarified: its flayour is made of Coriander feeds prepared, and the shavings of Cyprus Trees: Some instead of Soot

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make of Sugar Molosses and Honey, or mix them with the Soot.

40. To make Hippocras.

Take of Cardamoms, Carpobasamus, of each half an ounce, Coriander seeds prepared, Nutmegs, Ginger, of each 2 ounces, Cloves 2 Drams; bruife and insufe them 48 hours in Rerer and White-wine, of each a gallon; after stirring of them, add thereto 3 pints of Milk, strain it through an Hippocrasbag, and put thereto a pound of Sugar Candy to sweeten it.

41. For the boyling of Canary or Sacks.

Raw off 4 or 5 gallons, then put to it 21 gallons of Milk, from which the Cream hath been skimmed; beat them till they be throughly commixed, adding one pennyworth of Roach Alum dried in a Fire shovel and powdred, and as much of white Salt: After this take for the boyling of Canary or Sack, the whites of 10 or 12 Eggs, and a handful of Bay-salt; having beaten them together in a Tray, put them also in the Wine, filling up the Wine in the Pipe again, and letting the Wine stand 2 or 3 days, in which time the Wine will recover to be bright to the eye and fine, and quick in taste; but be sure you draw it off from that bottom soon, and spend it as soon as you can.

42. For Claret that frets, and hath a flying Lee.

Take 21 pound of the powder of Pebble stones baked in an Oven, the whites of 10 or 12 Eggs, and a handful of Bay-salt; having beaten them well together in 2 gallons of the same Wine, then mix them with that in the Cask, and after 2 or 3 days draw off the Wine from the bottom: The same Pearl serves for White-wine upon the fret, by the turbulency and resting of their Lee. 43. For Rhenift that frets.

TO which 'tis most prone after Midsummer as aforefaid. They feldom use any other Art but giving of it Vent and Covering; then open the Bung with a Tyle or Slate, but be fure to wipe the filth off the Slate when there is any, and when it hath done fretting, let it rest for a week; then rack it off into a new scented Cask, and this will cure it.

44. For Spanish Wine disturbed by a flying Lee. TAke of whites of Eggs, Bay-falt, Conduit-water and Milk ; beat them well together in a conve- hap nient Vessel; then pour them into the Pipe of Wine, having drawn first out of the l'ipe a gallon of Wine foll or two, blow off the Froth very clear; hereby the Tumult will in 2 or 3 days be composed, the Li- T. quor confined, and the Wine drink pleasant, but will not continue fo long: Therefore I counsel to Ear rack it off from the milky bottom after a weeks fettle- fing ment, lest otherwise it drink foul, and change co- ther lour; and this will do.

45. For Spanish or Austrian Wines grown yellow or brownish.

TAke as much Milk as you think fit, sometimes alone, and sometimes with Isinglass well dissolved, and fometimes with white Starch, by which the Sulphur is forced to the bottom of the Veffel: that The fame effects Flower-deluce-roots, and Salt-pe- good ter 4 or 5 ounces, of whites of Eggs 8 or 10, and a strai

convenient quantity of common Salt mix'd and bea- a Sp ten in Wine.

46. To correct Wines that are lumpift, foul and ropy. TAke Powder of burnt Alum, Lime, Chalk, Pla-ster; for Spanish, white calcin'd Marble, Bay-salt, and other the like Bodies, which cause preci-pitation of the gross and visced parts of the Wine there affoat.

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47. An Example to attenuate Spanish Wines that are foul and lumpifb.

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T TAving racked them into a new fcented Cask, I I make a Pearl of burnt Alum, Salt and Conduit-water; then add thereunto the Powder of Beapflower or Rice a quart, and if they be brown and duskish, Milk; beat all these together with the Wine, blow off the froth, and cover the Bung with a clean Tyle; after a few days rack the Wine again and put it into a Cask well scented : Here some per-- haps will not understand well what is meant by scenting of a Cask; for this purpose I explain it as e follows.

TAke of Brimstone 4 ounces, burnt' Alum one iounce, Aqua Vita 2 ounces ; put them into an it Earthen Pan or Pipkin, and hold them over a Chae- fing-dish of glowing Coals till the Brimstone runs; o- then dip therein a piece of new Canvas, and instantly sprinkle thereon the powder of Nutmegs, Cloves, Coriander-seeds and Aniseeds. And this is the Scent.

ol- ONE this is : First, You must give it a Pearl, then ch [ draw it from the Lees, after the clarification by 1: that Pearl; this done, infuse 2 pound of Turnsole in e- good Sack all Night, and the next day putting la frained infusion in the Wine in the Hogshead with a- a Spring-Funnel, leave it to fine, and after draw it or excellent Wine.

50. Another.

Ake the Lees of the Ashes of Vine-branches, by- M or of Oakleaves, and pour it out into the ci- Wine, and after flirring leave it to fettle; put a ine wart of Lee to a pint of Wine.

11. To mend Claret decayed in Colour.

Irft rack the Wine upon a fresh Lee, or Allicant, or red Bourdeaux Wine ; then take 3 pound of Turnfole, steep it all night in 2 or 3 gallons of the Wine, and having strained the Infusion in a Bag pour the Tincture into the Hogshead, sometimes they fuffer it first to fine of it felf in a Rundlet, and cover the Bung with a Tyle, and fo let it fland for 2 or 3 days, in which time the Wine usually becomes well coloused and bright; some use only the Tincture of Turnsole.

TOU may take for the same purpose a bushel of T Elder-berries, pick them from their stalks bruise them, and put them and the strained juice in wit to the Hogihead of discoloured Claret, to make it in

drink brisk and bright.

1 70 G : Simutor to Suas-

Frhe Claret be not found and good, overdraw or 4 gallons, then replenish the Vessel with aclo much good Wine Red, and rowl him upon his bed the leaving him reversed all night, next morning the Bung uppermost, which being stopp'd, leave the Bung uppermost, which being stopped to the Bung uppermost, and the Bung uppermost, and the Bung uppermost, and the Bung uppermost, which being stopped to the Bung uppermost, and leaving him reversed all night, next morning turn fuch newly recovered Wines abroach the ver in t next day after fined, and draw them for fale fperfor ! dily. Bay. it fu

The End of the Second Book.

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## The Third Book.

1. For Faint Sack.

DEat it with Soot, and whites and yelks of D Eggs.

2. For a Butt of Malago that boyls.

Take a pound of Roch Alum, boyl it in a Pan of Iron, take off the skim, and beat it together in with 6 Eggs and 13 Gallons of Milk, beat it well it in the Butt or Pipe together.

3. For a Butt of Sack that Pricks.

TAke 3 quarts of Bean flower, put some of the w same Wine into it, beat, it well for fear of clogging, put it in the Butt, and beat it 2 hours,

bed then fill it again, and it will keep it.

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Ack them into a clean Cask, give them a scent of Aqua vitæ, put at the least 2 pennyworth ver in the Butt, put in 3 or 4 Gallons of Milk, beat it perfor half an hour, make a Pearl of 10 whites of Eggs, Bay-falt and Conduit-water, beat it again, and fill t full of Wine, and blow off the froth; then lay a Tyle on the Bung, and put half a pint of Aquavitæ in it.

5. For Sack that is eager.

TAke 3 or 4 Lime stones that are white, put them into a Can, and pour a pottle of the same Wine over them, let them stand 3 or 4 hours till they are ike Flower; then put 2 or 3 gallons of Wine more of the same, stir it well till it be like Milk; then out it into your Butt, let it be half an hour, then tafte

tafte it, if the pricking be not gone, put more Lime T gallons of Milk, the whites of 3 Eggs, some Bay-salt, en a little Conduit water, and half a pound of burnt lit Alum beaten together, and in a short space it shall on a be perfect white, and fine without pricking. drai

6. How to make a Gallant Hippocras. Take 4 gallons of White-wine, 4 pound of pow-foot der'd Sugar, 5 ounces of Cinnamon, half artake worth of long Pepper, 2 pennyworth of Coriander T feed; bruise them, then steep them in the Wine, and let it be close covered, and one quart of the belyou Sack, put them in and stir them well together; then the it fine, give your Vessel a scent, and put it therein litter.

7. Tomake Baftard White. DUT 4 or 5 gallens of Milk into your Butt of tir Pipe, beat it well, and give it a Pearl of i whites of Eggs, and it will fall fine.

8. To make a Butt of Muskadine.

Take the Lags of all forts, and put them into elv Muskadine Butt, and be fure your Lags do no prick; put thereto one or two gallons of Soot, be T it up and so let it lie; but if you want Soot, the Sy rup of Bastard is as good or better; four pounstan will serve to a Butt.

9. For Claret that hath loft his Colour. Fill it up with Red-wine, and rowl it well, and la it upon the Bung all night, lay Gravel upon

in the morning.

Vef 10. For White-wine that is lumpish and lowring. TAke a pound of Roach-alum, burn it and beat to powder, and the whites of 6 Eggs; beat the T and the Alum in a gallon of the fame Wine, with handful of Bay-falt; it will be fine by morning. the

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11. A Flavour for a Pipe of Canary.

neT Ake 10 ounces of Torth, 10 ounces of Limon. to ounces of Coriander-feeds, let them be beaten very small, and put into a little Bag; then take in little Civetwater, and put it into a little Fruit-dish on a Chasin-dish of Coals, and make the Water lukewarm; then take your Bag, and dip it in till it hath drank up all the Water; hang it into your Pipe a foot, and when you think by your taste its enough, 10 ounces of Coriander-feeds, let them be beaattake it out, and it will ferve for another.

12. To make an excellent Scent.

TAke 4 ounces of Brimstone, a little Alum, a spoonful of Aqua-vitæ, mix them together; when be you have done, take a new piece of Canvas and dip her therein, and have in readiness the powder of Antufe Bus, 8 Cloves, 2 Races of Ginger, Orange-peel, and ein little Coriander-feeds, well beaten together; then tast them upon the Canvas while it is warm, so keep t dit in a dry place.

13. The best time to take Wines.

WHen the Wind is East-ward, for when the East-winds blow, the Wines begin to move themnto felves, shewing what they are in goodness or badness.

14. For Spanish Wine that will not fine.

be TAke half a peck of Collis Tauta, and put it into the Veffel, let it be well beaten together; let it Sy the Vessel, let it be well to

15. Another for the Same.

TAke 12 Eggs new laid, and a pint of Conduitwater, and a handful of Bayfalt, beat them well d 1 on together, and put them into your Vessel; then beat them well again and it will fine; but let not the Vessel be unfilled.

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the TAke 5 or 6 gallons of Milk, four handfuls of Bayfalt, draw some of the same Wine, and put them into the Butt rogether one hour; and when the Lees are fallen rack it, otherwise it will fret and oyl.

17. For high Country Wines.

R Ack them off their gross Lees within a week after they are fallen; and if they are brown, put is gallon of Milk into your Hogshead, and a good Lee, scent; let it be always filled, and your Wine will Pebl keep the better.

18. For White-wines that Fret.

Raw 6 gallons, and take a handful of Bay-falt and a gallon of Milk, a handful of Flower and and the whites of 6 Eggs ; then beat these very well ons together, and give it a good scent; put these into Mul the Vellel, and rack it at 4 or 5 days end.

19. For Spanish Wines that prick.

not Take a handful of Rosemary at the Bunghole of f no your Vessel, bruise it before you put it in, and it ti let it hang in the Wine till it be without pricking. Pipe

20, To make Malago for a need.

Ake a Hogshead of green Sherry, and 3 pound of then white candy Syrup ; beat thefe in the Wine, there give it a Pearl, and put it into your Veffel, and it w draw it for good Malago.

21. For Sack that hath loft its Colour, or is musty,

TAke a quart of Barley meal, the whites of 20 Eggs, half an ounce of Cloves well beaten, and a pot- he le of the same Wine; beat them and put them into make your Wines, fo let it rest with Vent, and it will be purswed.

22. To preferve Malmfie.

Fit fade, put it into the Vessel so ounces of mos-Clare fel; then rowl your Vessel, and let it rest, and flop the Vent, and so it shall remain perfectly good TA to the end.

23. For a Pipe of Sack that is long.

TAke a pound of Roach-alum, beat it well, and hefe mix it with some of the Wine; then put it in-Win rack it, and this will help it.

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24. To help the boyling of Galcoign-Wine. N Summer take a Hogshead, wash it clean and scent it it well, be fure your Scent be very fine from the d Lee, the foul Lee makes it boyl; take a handful of Il Pebble-stones, and those will help it.

25. To make a Pipe of Allicant.

TAke a Pipe and wash it very clean, and take a lt Hogshead of high Country Claret that is sweet er and fine, and rack it into the Pipe; then take 8 gal-Il ons of Soot and put to it, and beat it as you do to Muscadine; before you put it in, take 8 gallons of back, and the rest of any Laggs of Claret; if it be not deep enough, you may put Red-wine into it; of f not sweet enough a gallons of Honey, and beat nd it till it have a Pearl, and fill it into the Pipe; let It stand till it be fine, then rack it into another. Pipe; then take 20 ounces of Annifeeds, bruise of hem and put them into a Bag in at the Bung, and e, there let it be 12 ot 14 days; then take it out, and d t will ferve very well.

26. For Claret that is Tawny.

TAke a pound of Turnsole, and steep it in some of the same Wine 24 hours; then put it into ot- he Hoghead through a Catch, beat it, and it will to make perfect white. be

27. If Red Wines be dark.

DUT into the Vessel a gallon of Milk, then take as much Turnsole as you did before to your of-Claret, and use it as above-said. nd

28. How to make 10 Gallons of Hippocras.

Ake 10 ounces of Cinnamon, as much Ginger, 5 ounces of Long Pepper, and 5 of Nutmegs, of Cloves 2 ounces, as much of Caraway-feed; beat all ind these together, and lay them in steep 24 hours in the in-Wine, the first half being Malago, the other Whitene, wine; stir them well together, and let the Wine run through a Cloth; take a pound of powder'd Sugar, then run a pottle of Milk through the Bag into

into the Wine; when it is fine, put it into your Rundlet, and give it a fcent, and it will keep a quarter of a year.

#### 29. To make Scent.

Take a flat earthen Pan, put into it two pennyworth of Brimstone beaten small, and a pennyworth of Aqua-vitæ; put it over the sire, and when it is ready to boyl, let it run through a linnen Cloth, and let it be cold; and add a pound of Coriander-seed, Nutmegs, and long Pepper beaten, and these will make a good Scent for any Wine.

30. How to make 10 gallons of Soot.

Take 6 pound of Honey, and a quarter of a pound of Liquorish, when the Bark is taken from it; beat it in a mortar with 2 pennyworth of long Almonds, and boyl them in a Kettel stirring them well; and when it is cold, strain it, and put it in to a Rundlet, and draw it with your Sack or Gascoign Wine, and it will be pleasant enough.

The End of the Third Book.

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## The Fourth Book.

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1. For White-wine that is faint and hath lost its Colour.

Ack it from its Bed, and if you have any Connick-lees, you may put your faint or tawny Wines upon them; then rowl them over, or beat them twice a day, and within 10 or 12 days you may rack it off, and you shall have it brisk and white.

Ake your Wine and rack it from its Lees; then take a pint of Roach-Alum, the whites of 6 Eggs, a handful of Salt, and a quartern of Beanflower, or a pound of Rice, and a little Conduitwater.

3. To make White Lags.

Take a clean Rundlet that will hold the quantity of them, and beat them with a Pearl made of Eggs, Bay-falt and Roach Alum, and whiten them with some Milk, and if you will, put some Canary in them, and it will draw very well.

Raw them into a Rundlet, put to them some Red-wine, as much Turnsole as will make it oright; beat it with as much Alum as will serve for the quantity of the Wine, and when it sines, you may draw it away with what you think good.

Fyou have any white Lags, rack them upon half a Butt of Malago and Canary Lees; let them lie about 3 weeks, and beat them up every other day upon those Lees, till you have gathered the strength thereof; let them abide thereon till they begin to fine, then rack them into a clean Cask, and give it a strong scent, and if it be brown, white; if not, give it a good Pearl, and when it is fine, you may draw it as you see good.

6. For Claret that hath lost its Colour.

If his Lee be good and found, overdraw him 3 or 4 gallons; then fill him up with good Red-wine, and rowl him well up in his Lees, and let him lie all night upon his Bung, and in the morning lay it up right, and let it rest till it be fine; then shall you have it well coloured.

Ack it into a fresh drawn Hogshead upon the red Lees; then take 5 pound of Turnsole and steep it in part of the Wine; then wash your Rapes clear out, and put it in the Hogshead, with a pound of the best Alum; rowl them well together

and your Wine will be brisk and bright.

Red-wine that is faint, and bath lost its Colour.

Red-wine; then take; pound of the best Turn tole, sleep it in some of the same Wine, and whe it is well steeped, wring it out, and put the Wines coloured into a Rundlet until it besine; then draw it off, and put it into your Hogshead, and it witnake it perfect and bright.

9. Another way for the Same.

Take half a bushel of Elder-berries when the be full ripe; pull them from their stalks, brui them and preserve them, and put the juice of them (when you have occasion) into your Rewine, and it will make it drink brisk and bright.

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10. To rack Rhenish Wine.

Ack your Cask very clean, and let it remain full of water all night, and the next morning draw it clean our, and put a good Scent into it, and it will make the Wine fret and boyl; then if your Wine be hard, take 8 or 10 gallons of Clarified Honey, with a gallon or two of Milk, as you shall see good, beat it strongly; if it be lumpish, give it a Pearl, and it will do well.

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11. To make Rhenish wine.

Take a Hogshead of Rochel-wine, Scent it with a very strong Scent; then take the whites of 8 or 10 Eggs, Bay-Salt or Conduit-water; then take 10 or 12 gallons of Clarifi d Honey, take 60 or 80 pounds of Sugar; then step it up close after you have beaten it well, and you shall have it perfect, fine and good.

12. For Sack that is lumpish or long.

Take the whites of Eggs, Bay-Salt, Roach-Alum, and 2 quarts of Bean-flower or beaten Rice, beat them together; if brown, use Milk; if white, use all these together; then blow off the froth, and lay a piece of Tyle over the Bung; then let it lie till it be fine; afterwards rack it off, with a good Scent, and it will drink very well.

13. Another way.

Take a Hogshead of Sherry-Sack, and 40 pounds of Canary Syrup, it will cost you 9 d. a pound; then take a half Tub; then draw some of your Wine, and beat it with a short stubbed Broom; then put it into your Hogshead, with Milk to whiten it; then beat it up with a Pearl, and if you sweeten it, you may draw it for Malago or White Bastard.

14. A Flavour for Sack or Bastard.

Take half a pound of Aniseeds, a pennyworth of Ginger, Cloves, Grains, Long-Pepper and Liquorish, of each a pennyworth; beat them, and hang.

hang them in your Wine in a linnen Bag, until the Wine taste enough of the flavour; then take it out.

15. For Bastard that pricks.

R Ack it upon a good Muskadine-Lee; then and take 3 gallons of the best Ale, and 2 or 3 of you the best Almonds; then fill it up with Bastard Ca- hav nary, or Sherry of Bastard, mix'd with your Lags, and it will draw for Bastard or Muskadine.

16. Another for the same.

TAke 5 gallons of clarified Honey, and put it in- our to your Cask, and beat it up with a Pearl of one whites and yolks of Eggs, and let it rest. han

17. For Spanish-wines.

bru OR Sack that hath lost its Colour, and hath a let i flying Lee, make a Plea of whites of Eggs, Bay-ther Salt and Conduit-water, and Milk, fo much as your gr shall see good, beat all these together; then fill it the up, and blow off the froth very clean, and it will be white and good; and if you would keep it long, you must rack it into another Cask, and it will not then flower nor be ill-conditioned, for Milk willind make it fo.

18. Another for your Rhenish wines.

TAke a good handful of Fire beaten to powder, as much Juniper, with the juice of 2 or 3 Li-wine mons, and a few Cloves; beat all these together, and bruise them in your Wine till it tafte ftrong of the TA Flower; then take it out, and draw it as you shall fee good. pani oun

19. For Allicant that pricks.

TAke 2 or 3 Cans of brown Bastard, the sweetestome you have, and a pound of Turnfole, and washour out the colour, then put it into your Wine; and nd y if it be hard, then put in some more Bastard; if it be tawny, put in more Turnsole; or for want Mo of Bastard, cut of clarified Honey as much as will of Terve ...

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20. To part a Butt of Muskadel.

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Raw half your Wine into another Butt ; then take your Lags of all forts that do not prick, n and fo much Syrup as will not prick; then take of your Part and beat them up, and let it rest after you have blown the froth from off it.

21. The Flavour of your Muskadine.

M Ake a Bag of linnen Gloath, about then take 4 ounces of Coriander-feed, 20 then take 4 ounces of Allamus alamatus, A Ake a Bag of linnen Cloath, about a footlong; no ounces of Ani-feed, 10 ounces of Allamus alamatus. of one ounce of Cloves, one ounce of Ginger, a little handful of Sanders, a little Musk or Ambergreese : bruife all together, and put them into the Bag, and a let it hang in the Wine till it hath given a flavour : y- then take it out and let it reft ; or you may put in out grains of Musk, and some Cyprus, according as it he quantity of your Wine is. ill

22. How to use a Butt of Sack when it is musty.

ng, TAke a gallon of Lime, and beat it small, and put not it into the Butt; then take a Staff and beat it. villand let it fand a day or two.

23. For Claret that hath loft its Colour.

Take a pennyworth of Damasons or Bullace, or more as you see good, and stew them in Red-Li-wine, and make a pottle of Syrup or more. more as you fee good, and flew them in Red-

24. Tomake brown Bastard.

ind the TAke the Lugs of Claret and White-wine, and put them into your Cask with your Lugs of hall panish-Wine; and before it will prick, take 40 bound of Bastard-Syrup, and mingle it well with testiome of the same in a half-Tub; then put it into vash our Cask, and beat it up with a Pearl of Whites and nd yolks of Eggs, and let it reft.

; if 25. A Receipt for a Muskadel that pricks. will of Storax, Benjamin and Musk fere.

26. A Receipt for Sack that pricks.

Imprimis, For Orras-powder, take half an ounce of Ani-feeds, 3 pennyworth of Spanish-white, 2 pennyworth of Rose water, and Alum boyled with the Rose-water, and so take it and put it into the Butt.

27. A Receipt for Sack that will not fine.

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Take 2 pennyworth of Rice, and beat it up very simall, and 2 pennyworth of Alum; this wilkeep your Wine from quarrelling, and make it fine

28. How to help Wine that hath lost Colour and Strength
T Ake 6 quarts of new Milk, the Cream being taken off, the whites of 22 Eggs, a handful of Bay-Salt, a quart of fine white-Flower, and 2 pen will nyworth of Roach-Alum; beat these things a long Via Stace will do west.

Ake a Match of Ani-seeds and fine Fenne feeds, a little Brimstone, with a little quantity of Long-Pepper beaten not too small; put a into a linnenBag that will go in and out at the Bun hole, then stop it up close for the space of six deight days.

Jo. A Receipt for the Crist.

Inger and Cinnamon, of each 3 ounces, Clov

4 ounces, Nutmegs 10 pennyworth, Coria
der-feed two ounces, Carraway feeds eleven ounce
Calamus two pennyworth.

THE Wines of Beurdeaux are called Jasterre; yo fhall know them by their (mall Hazel hoo) and likely they be full gage.

Hen there are high Countrey Wines, and they come not till Christmas, for if they do they are orfeited; you shall know them by their Willow-oops, and they most commonly want of gage.

Then have you Galliack Wines in Pipes and Hogsheads, and they be high coloured, and 3 quarers bound, and lack of gage 2 Testers.

34. A Remedy for the Same.

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Ash your Cask very clean, and let it be all night full of Water, and the next morning lraw it clean out, burn a good Scent in it, and it will make your Wine fret and boil; then if your Wine be hard, take 8 or 10 gallons of clarified Honey, with a gallon of Milk or two, as you shall see it, beat it strongly; if it be lumpish, you may give t a Pearl, and it will do well.

The End of the Fourth Book.

The first spirit see see than

All has regist his reach and a face of the land.

I V Ada your Cole var older, and he is be all with a cole was morning and the cole was morning and the cole was morning and a cole was a cole was a cole was the cole with a cole of Maik derive, as you shall fee the cole with a cole was given the cole with a cole was given and a cole was given and a cole was given.

Fue End of the Fruith Buck.

